Thompson Retractor User Manual

Thompson Retractor

FRAMES:

- QUICK FRAME
- BILATERAL FRAME

SET UPS:

- GENERAL
- VASCULAR
- TRANSPLANT
- UROLOGY
- GYNECOLOGY

Uncompromised Exposure.

ELITE II RAIL CLAMPS

11" (25cm) Tall with 1 1/2" Cam Joint	41902ACS
18" (45cm) Tall with 1 1/2" Cam Joint	41902AC
18" (45cm) Tall with 2 1/2" Cam Joints	41903AC
22" (55cm) Tall with 1 1/2" Cam Joint	41904AC
22" (55cm) Tall with 2 1/2" Cam Joints	41905AC
26" (65cm) Tall with 1 1/2" Cam Joint	41906AC
26" (65cm) Tall with 2 1/2" Cam Joints	41907AC

ADJUSTABLE HEIGHT RAIL CLAMPS
13" - 22" (33cm - 55cm)

AHRC with 1 Adjustable Cam Joint	41902ARC
AHRC with 2 Adjustable Cam Joints	41903ARC

CROSSBARS

Crossbar with 2 Cam Joints 24" (11" x 13")	41900BC
Crossbar with 2 Adjustable Cam Joints 24"	41900BAC
Crossbar with 2 Cam Joints 24" (8" x 16")	41900BCW
Angled Arm 24" (11" x 13")*	44124W

*May be used as a crossbar (see below for more options)

BILATERAL CROSSBARS

Bilateral Crossbar 7 1/4" x 13 1/2" x 7 1/4"	41900F
Bilateral Crossbar Hinged 11" x 8 1/2" x 11"	41900H
Bilateral Crossbar Hinged 14" x 10" x 14"	41900HL

ANGLED LATERAL ARMS

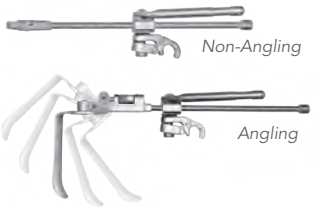
26" (6" x 20") (15cm x 50cm)	44126
24" (11" x 13") (28cm x 33cm)	44124W
24" (8" x 16") (20cm x 40cm)	44124N
18" (8" x 10") (20cm x 25cm)	44118N
12" (6" x 6") (15cm x 15cm)	44014S

STRAIGHT ARMS

Straight Arm 12" (30cm)	44012N
Straight Arm 20" (50cm)	44120N
Straight Arm with 1 Cam Joint 20" (50cm)	44120C

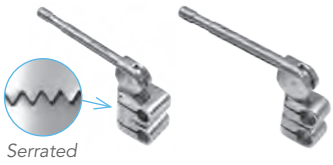
EXTENSION ARMS

Extension Arm 12" with Cam Latch Joint	44014LC
Hinged Extension Arm 12" x 12"	44115



CAM II HANDLES

Clip-on 8" (non-angling)	42126WH
Clip-on 8" Angling	42126WA



CAM I SLIDE-ON JOINTS

Cam I Serrated Slide-on Joint	42112C
Cam I Slide-on Joint	42110C

MICRO-ADJUSTABLE II NON-ANGLING HANDLES

Clip-on 10 3/4"	45006STC
Clip-on 8 3/4"	45007STC
Clip-on 10 3/4" Bariatric	45006BTC
Clip-on 8 3/4" Bariatric	45007BTC

TABLE ADAPTER

Jackson Spine Frame Adapter	41927

MICRO-ADJUSTABLE II ANGLING HANDLES

Clip-on Angling 10"	45006CA
Clip-on Angling 7 3/4"	45007CA
Slide-on Angling 7 3/4"	45007STA

RAIL EXTENDER

Rail Extender 15" Single Clamp	5844
Rail Extender 14" long with 2 1/4" offset Dual Clamp (helpful for obese patients)	41917
Rail Extender 22"Dual Clamp	41929

Please use this Product Index to reference Thompson Retractor Frame components shown in this manual. These products can be combined to create the Quick Frame or Bilateral Frame, or can be used to modify an existing frame. Thompson Retractor can also create custom frame components to meet any unique surgical needs. Additionally, we offer components that are compatible with Omni, Bookwalter or Synthes products.

Additional product information can be found at our web site at www.thompsonsurgical.com and can be ordered by calling Thompson Surgical at 800.227.7543.

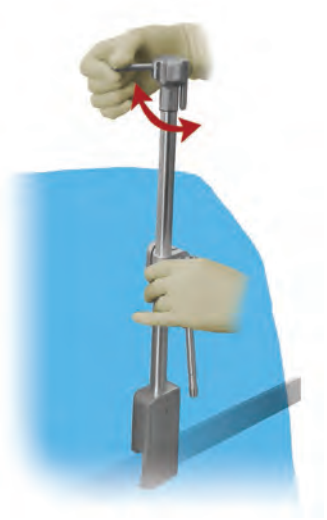
Rail Clamp

The rail clamp is the base of the Quick Frame and Bilateral Frame; it secures to standard OR tables to support the crossbar and/or frame arms. Rail clamps may have one or two joints depending on your preferred use. If using an Adjustable Height Rail Clamp, please see bottom of page for instruction.

ELITE II RAIL CLAMP SET UP INSTRUCTIONS:

STEP 1
To secure one Elite Rail Clamp to the table, be sure the jaws of the rail clamp are completely open by turning the knob at the top of the rail clamp. Once open, secure the rail clamp by placing the open rail clamp jaw over the sterile drape on either side of the table.

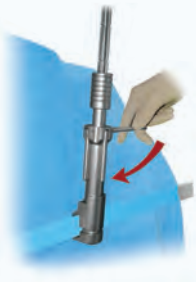
CAUTION: If the patient is obese, avoid compressing the ulnar nerve. When necessary, use a wider OR table or add to the width of the table using our Rail Extender (41917).



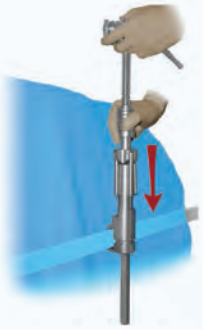
STEP 2
To tighten the Elite Rail Clamp to the table, turn the knob at the top of the rail clamp and utilize the attached two hanging handles for added leverage when needed.

ADJUSTABLE HEIGHT RAIL CLAMP SET UP INSTRUCTIONS:

STEP 1
To secure the Adjustable Height Rail Clamp to the table, be sure the jaws of the rail clamp are completely open by turning the knob at the top of the rail clamp. Once open, secure the rail clamp by placing the open rail clamp jaw over the sterile drape on either side of the table.



STEP 2
To tighten to the Adjustable Height Rail Clamp to the table, turn the knob at the top of the rail clamp and utilize the attached four hanging handles for added leverage when needed.



STEP 3
A Adjust the height of the Adjustable Height Rail Clamp post by pushing down on the grooved sleeve and sliding the post up or down to one of the five set heights marked by the grooves on the post.

B With the post positioned at the desired height, release the grooved sleeve to lock the setting.

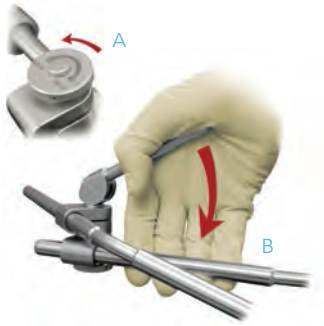
Crossbar

The crossbar secures to the rail clamp to provide support for frame arms and retractor handles.

QUICK FRAME SET UP:
CROSSBAR SETUP INSTRUCTIONS FOR USE WITH ONE RAIL CLAMP

STEP 1
Insert the crossbar into the rail clamp and position the crossbar approximately 3 to 5 cm above the patient. Prior to inserting the crossbar, the joint on rail clamp needs to be fully open by flipping handle out into the 'unlocked' position.

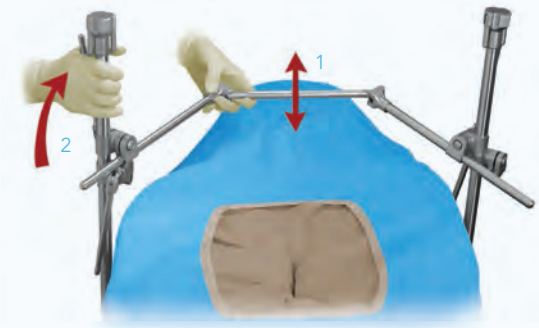
STEP 2
Lock the crossbar to the rail clamp by flipping the rail clamp cam joint handle into 'locked' position and grasping the rail clamp for leverage.



TIP:
If using the adjustable height rail clamp, turn the pressure knob on the adjustable cam joint to your preferred resistance. (A)

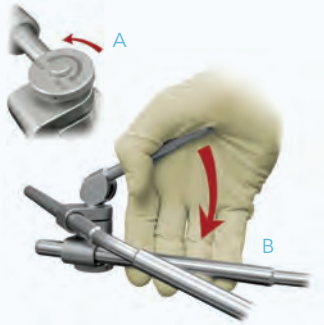
To lock the crossbar, flip the adjustable cam joint handle while grasping the adjustable height rail clamp for leverage. (B)

BILATERAL SET UP:
CROSSBAR SETUP INSTRUCTIONS FOR USE WITH TWO RAIL CLAMPS



STEP 1
Insert the bilateral crossbar into the top joint of the rail clamp, making sure joints are fully open ('unlocked' position) on either side of the OR table. Adjust the bilateral crossbar's height 8 to 10 cm over the patient.

STEP 2
Lock the bilateral crossbar to rail clamp by flipping the rail clamp handle into 'locked' position and grasping the rail clamps for leverage. A rigid crossbar (41900F) may be used in place of the hinged bilateral crossbar.



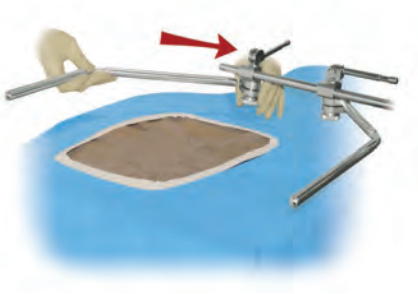
TIP:
If using the adjustable height rail clamp, turn the pressure knob on the adjustable cam joint to your preferred resistance. (A)

To lock the crossbar, flip the adjustable cam joint handle while grasping the adjustable height rail clamp for leverage. (B)

Frame Arms

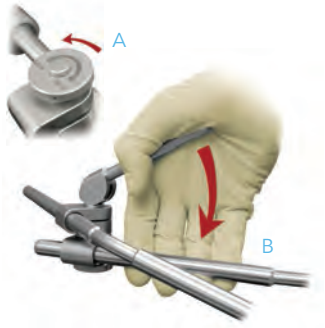
The frame arms secure to the crossbar or to the rail clamp to support retractor handles.

FRAME ARM SET UP INSTRUCTIONS FOR QUICK FRAME:



STEP 1
Insert the frame arms into the cam joints on the crossbar and position the frame arms over the patient's body low and wide around the operating space. All joints should be in 'unlocked' position when inserting frame arms.

STEP 2
With the frame arm positioned, flip the cam joint handle into 'locked' position. To secure each arm, grasp the crossbar for leverage.



TIP:
If locking the frame arm to an adjustable crossbar, turn the pressure knob on the adjustable cam joint to your preferred resistance. (A)

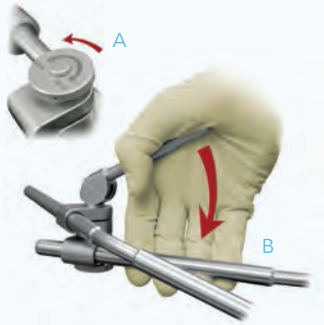
To lock the frame arm, flip the adjustable cam joint handle into 'locked' position while grasping the adjustable crossbar for leverage. (B)

FRAME ARM SET UP INSTRUCTIONS FOR BILATERAL FRAME:

STEP 1
Insert one or two frame arms into the bottom joint on the rail clamp and position around the incision.

STEP 2
Lock the frame arms to the rail clamp by flipping the rail clamp's cam joints handle into 'locked' position while grasping the rail clamp for leverage.

If using an adjustable height rail camp, lock the frame arms with the adjustable cam joints as shown in the previous steps.



TIP:
If using the adjustable height rail clamp, turn the pressure knob on the adjustable cam joint to your preferred resistance. (A)

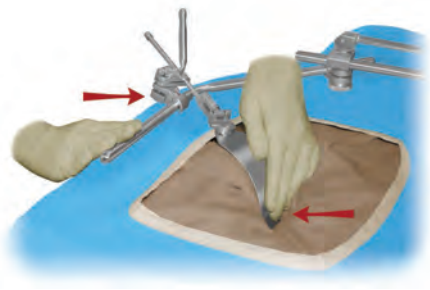
To lock the crossbar, flip the adjustable cam joint handle while grasping the adjustable height rail clamp for leverage. (B)

Retractor Handles, Blade Placement & Adjustment

Retractor handles lock to the frame arms and crossbar to support retractor blades. Retractor handles are available in Cam II and Micro-Adjustable II varieties with angling handle options. Micro-adjustable handles provide retraction when extra leverage is needed. Retractor blades can be infinitely adjusted to give you unlimited, multi-planed exposure.

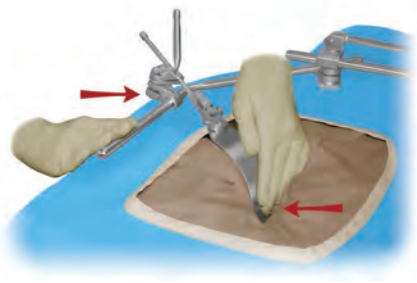
STEP 1
With the retractor handle in the unlocked position, clip the joint to the frame arm or crossbar, by pushing the joint down over the bar. Keep the bulk of the joint positioned on the outside of the frame. Flip the handle to the 'locked' position to secure the retractor handle.

STEP 2
After selecting a retractor blade, press the button on the head of the retractor handle and insert the blade nipple. Release the button to secure the blade to the retractor handle.



STEP 3
Position the blade in the incision with your hand and retract back. When using angling retractor handles, use your fingers or the Angling Head Wrench (43032) to turn the angling adjustment and tow the retractor blade as desired.

TIP: Blades supported by angling retractor handles can be infinitely positioned in the incision to provide precise retraction.



STEP 4
While retracting the blade, utilize the spring of the frame to maintain the desired amount of retraction. To do this, apply counter-pressure to the frame arm or Crossbar that the retractor handle is attached to.

STEP 5
Holding the blade and frame in place, have your assistant flip the retractor handle to the locked position to secure the blade in the incision.

BLADE & RETRACTOR HANDLE ADJUSTMENT TIPS
- To retract a blade after a Micro-Adjustable II Angling Retractor Handle has been locked, turn the knob to utilize microadjustable retraction (as shown above).
- To angle a locked & retracted blade, an angling head wrench may be desired for increased leverage. Angling Head Wrench (43032)

To prevent tissue necrosis release retractors every 20 minutes.

Accessories and Troubleshooting

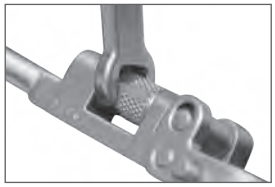
The Thompson Retractor offers exceptional versatility and can be set up to meet all your exposure needs. Please use the following accessories and troubleshooting tips for easiest set up. If you have additional questions, please contact your account manager at 1-800-227-7543.

RAIL CLAMP DOES NOT FIT ON OR TABLE

Call for an extender, or if using a Jackson Frame Table, a Jackson Frame Adapter (41927) is available.

THE RAIL CLAMP IS INTERFERING WITH THE PATIENT

If a bigger bed cannot be used, use our Rail Extender (41917).



HOW CAN I ADJUST THE BLADE ANGLE WITHOUT RELEASING THE RETRACTION?

When there is a lot of pressure on the blade during retraction, an Angling Head Wrench (43032) will be helpful for additional leverage.

HOW CAN I OBTAIN RETRACTION PERPENDICULAR TO THE FRAME ARMS?

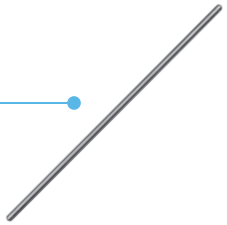
Our patented Cam II and Micro-Adjustable II Handles allow the blade to swivel and retract in any direction as shown.

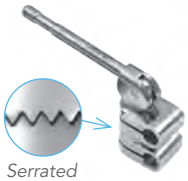
IF MY RETRACTOR HANDLES ARE FULLY RETRACTED, HOW CAN I OBTAIN FURTHER RETRACTION?

Unlock the retractor handles to release the tension and adjust the frame arms by spreading them low and wide from the incision. If further retraction is needed, please contact your account manager; longer handles may be necessary.

HOW CAN I ADD MORE ROOM TO THE FRAME FOR ADDITIONAL RETRACTOR HANDLES?

Additional arms, such as the Straight Arm (44012N), can be applied to your frame and connected with the one piece cam frame joints. Please see product index for additional arms.





HOW CAN I INCREASE FRAME STABILITY?

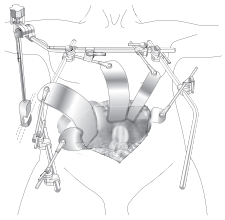
Frame can be enclosed by adding additional arms using the one piece cam frame joints (as described in above solution).

Suggested Setups

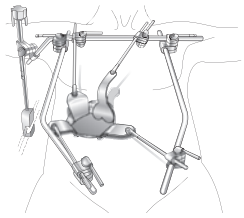
Please use the following diagrams to guide your set up for General, Vascular, Transplant, Urology and GYN operations. The Thompson Retractor has unlimited set up possibilities and each of these diagrams can be adjusted to meet your unique exposure needs. Please see the index on page 2 for additional pictures of the components shown.

GENERAL/VASCULAR SETUPS:

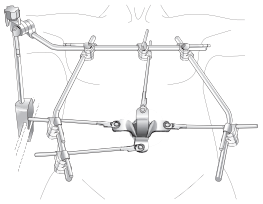
ABDOMINAL



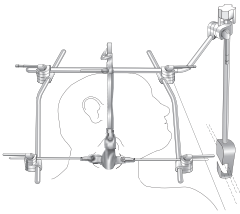
UPPER ABDOMINAL



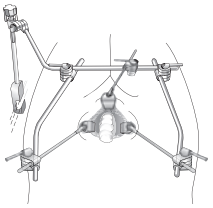
RADIOLUCENT ANTERIOR LUMBAR



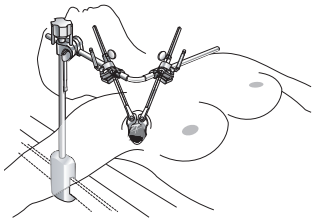
CAROTID/SMALL INCISION



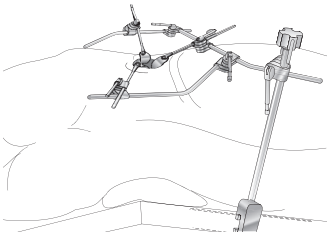
COLON/RECTAL



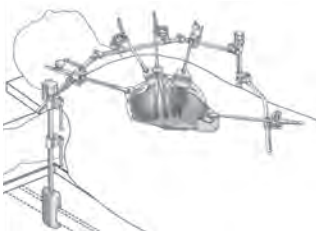
LYMPH NODE DISSECTION



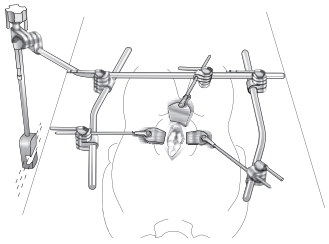
MINIMAL ACCESS



LIVER TRANSPLANT/RESECTION

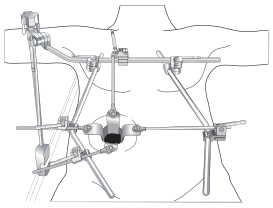


PEDIATRIC

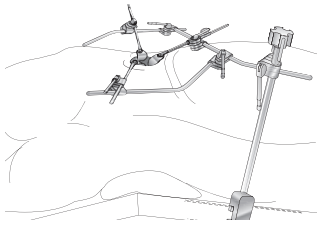


TRANSPLANT SETUPS:

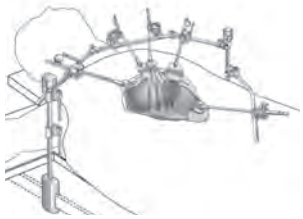
KIDNEY TRANSPLANT



MINI NEPHRECTOMY

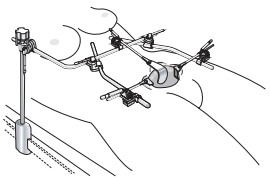


LIVER TRANSPLANT/RESECTION



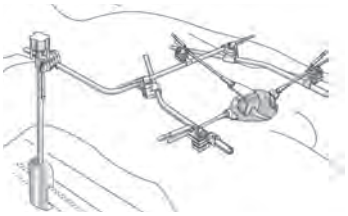
Liver transplant/ resection systems may be modified as needed with different sized frame arms & crossbars. Additionally, rail clamps may be staggered for a diagonal setup.

GYNECOLOGY SETUPS:

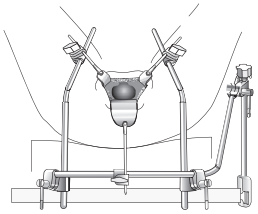


UROLOGY SETUPS:

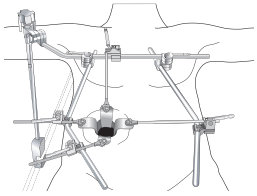
ABDOMINAL UROLOGY



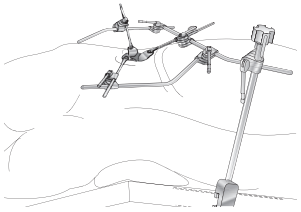
HARRIS PERINEAL



KIDNEY TRANSPLANT



MINI NEPHRECTOMY



Thompson SURGICAL INSTRUMENTS

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CE 0297

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